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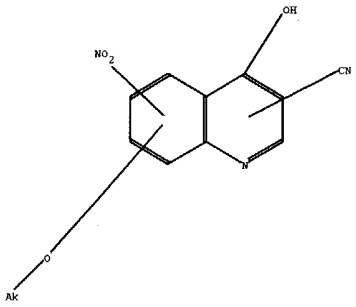
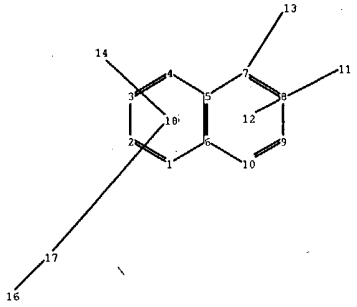
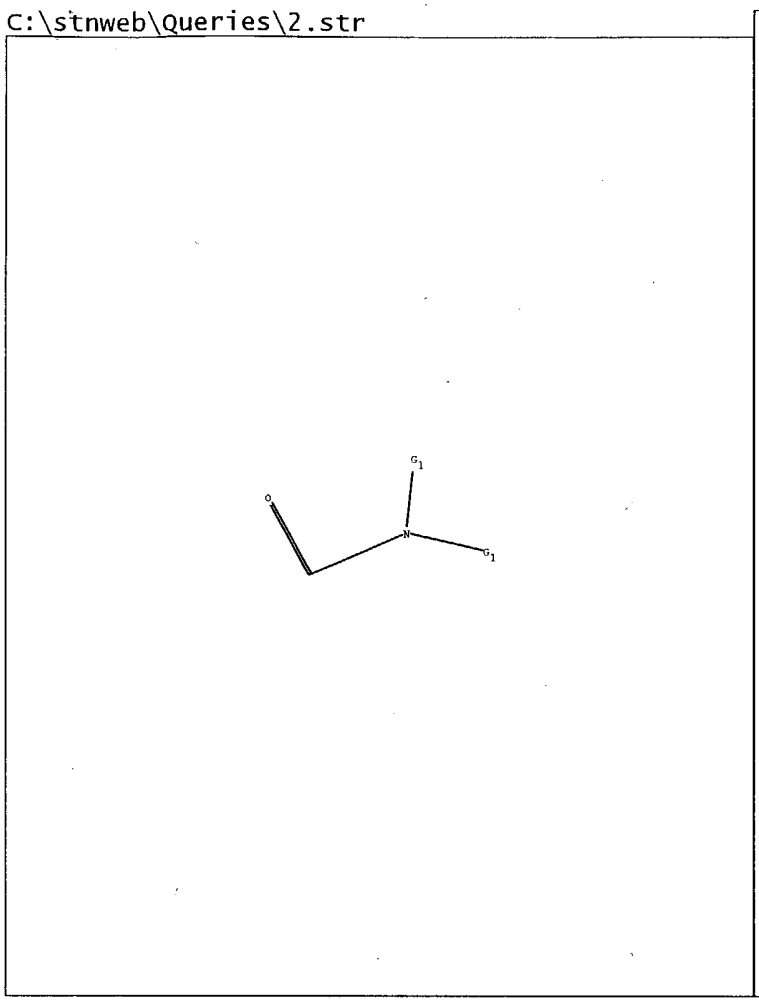


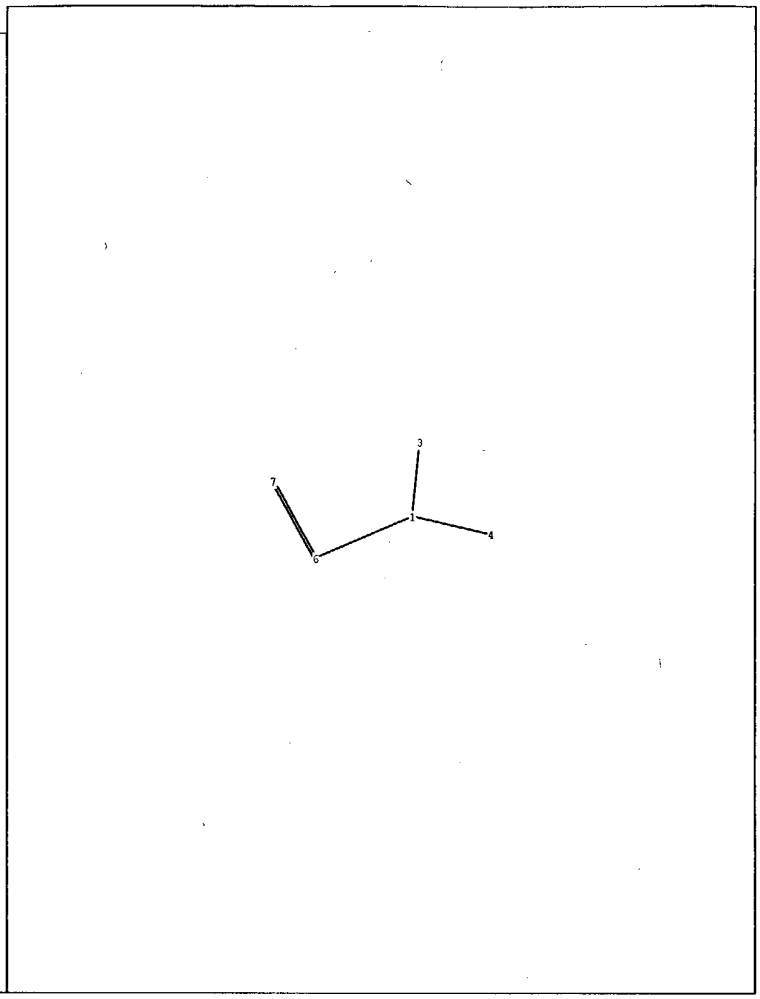


chain nodes :
11 13 14 16 17
ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
7-13 16-17
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10
exact/norm bonds :
7-13 16-17
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS
12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS

C:\stnweb\Queries\2.str



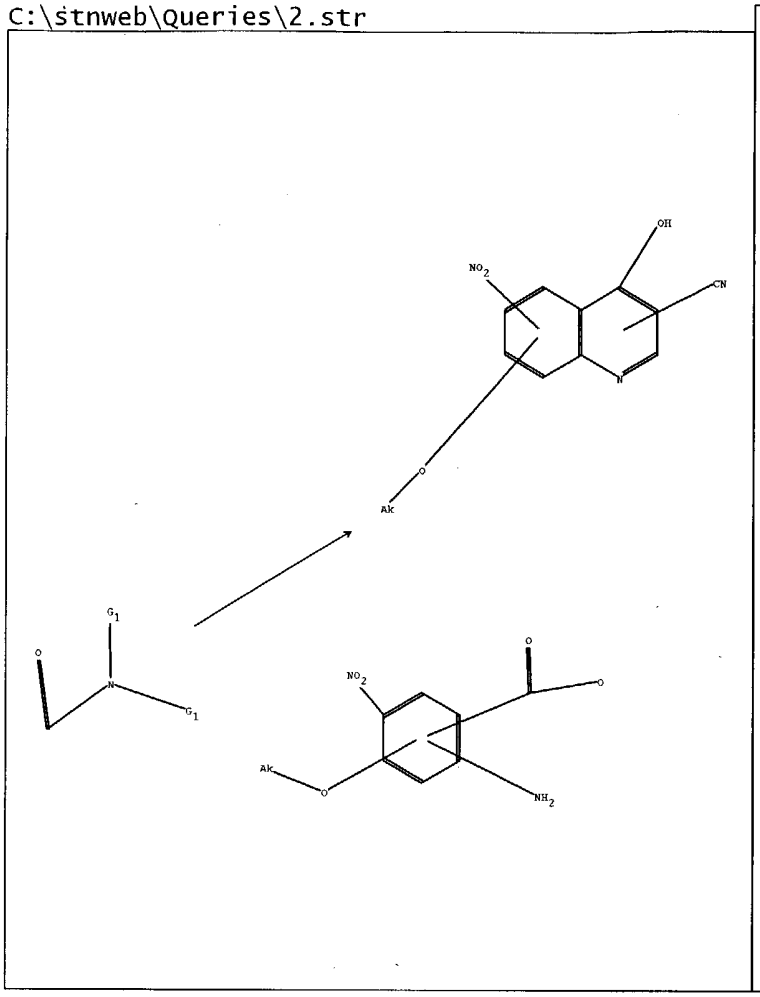


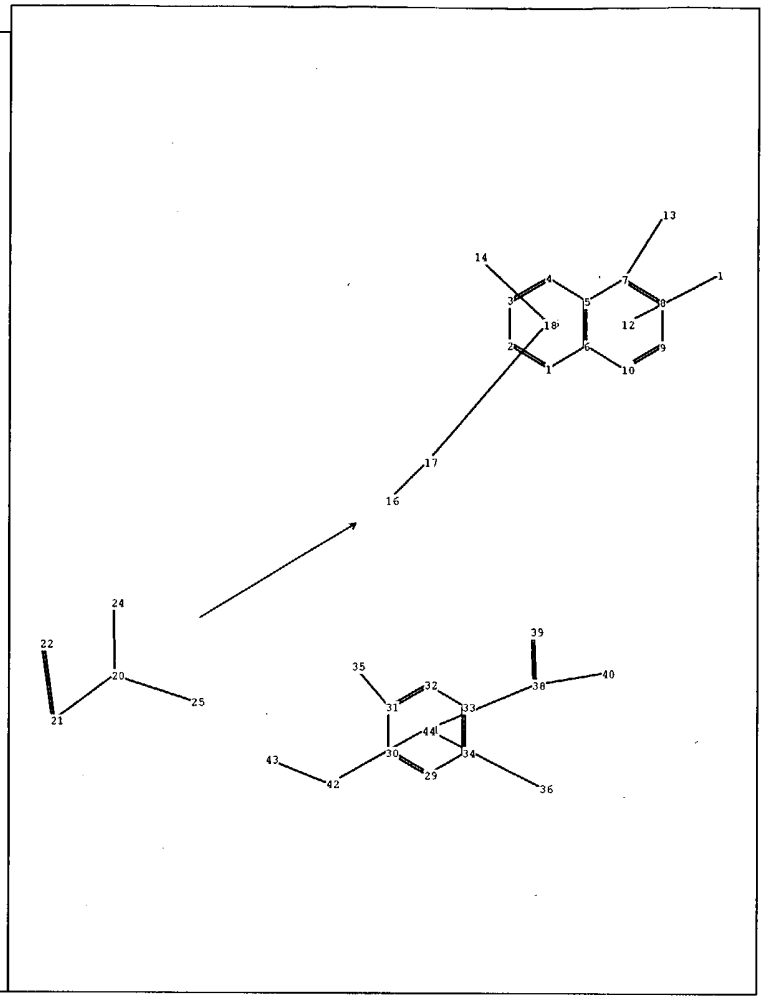
chain nodes :
1 3 4 6 7
chain bonds :
1-4 1-3 1-6 6-7
exact/norm bonds :
1-4 1-3 1-6 6-7

G1:CH3,Et

Match level :
1:CLASS 3:CLASS 4:CLASS 6:CLASS 7:CLASS

C:\stnweb\Queries\2.str



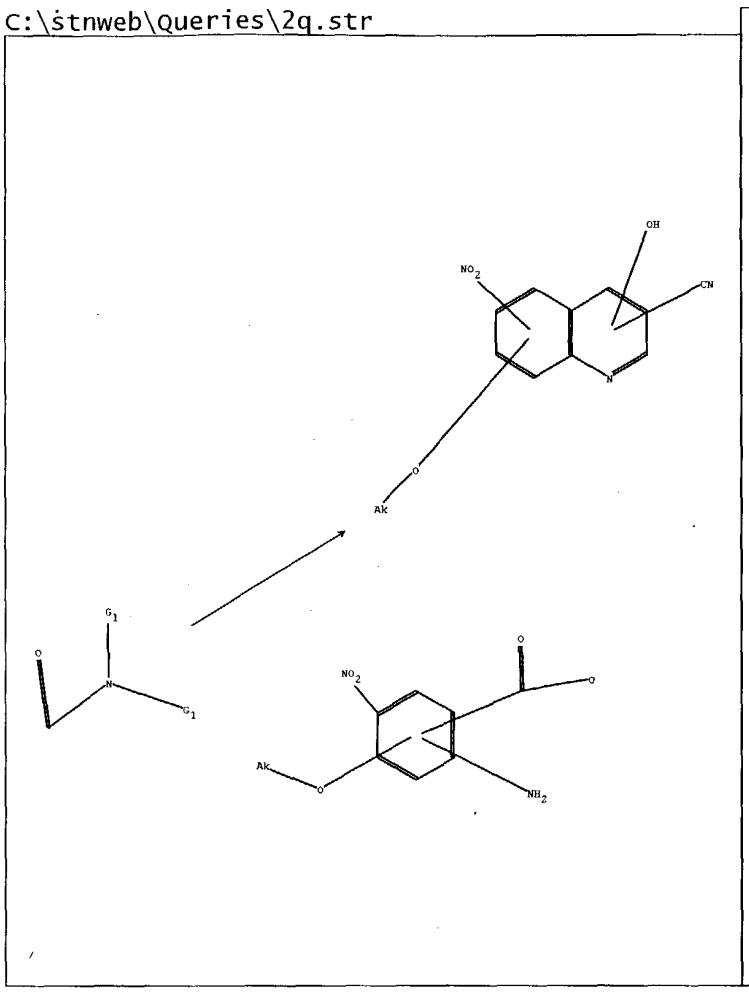


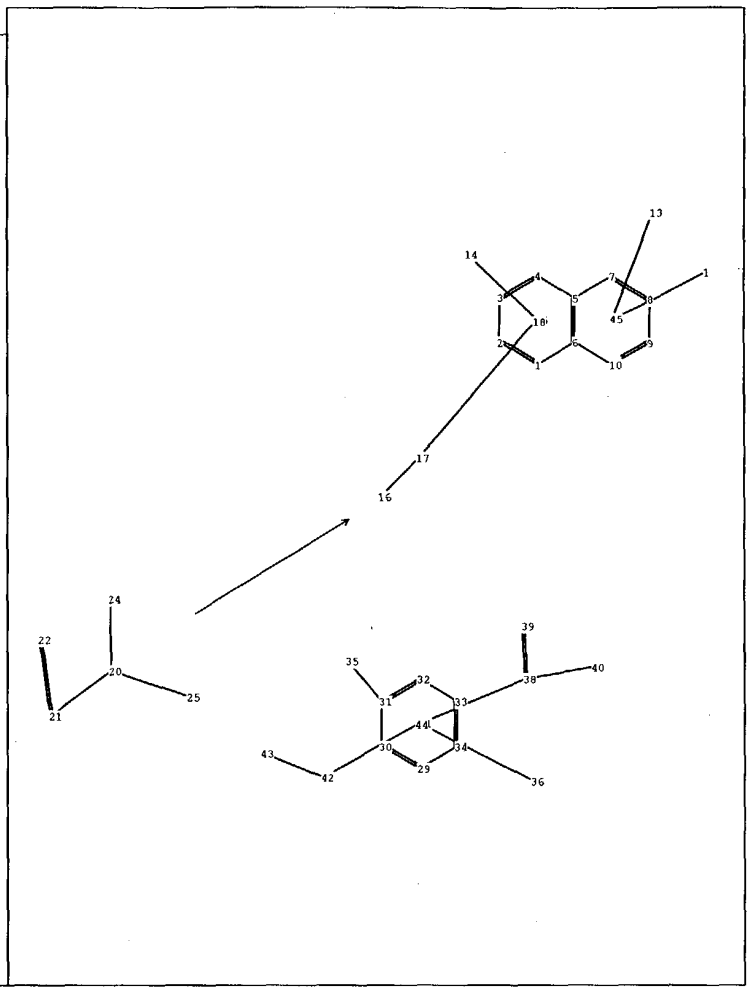
chain nodes :
11 13 14 16 17 20 21 22 24 25 35 36 38 39 40 42 43
ring nodes :
1 2 3 4 5 6 7 8 9 10 29 30 31 32 33 34
chain bonds :
7-13 16-17 20-21 20-25 20-24 21-22 31-35 38-39 38-40 42-43
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 29-30 29-34 30-31 31-32
32-33 33-34
exact/norm bonds :
7-13 16-17 20-21 20-25 20-24 21-22 38-39 38-40 42-43
exact bonds :
31-35
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 29-30 29-34 30-31 31-32
32-33 33-34
isolated ring systems :
containing 1 : 29 :

G1:CH3,Et

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS
12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 20:CLASS 21:CLASS
22:CLASS 24:CLASS 25:CLASS 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom
35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS
44:CLASS
fragments assigned reactant role:
containing 29
fragments assigned product role:
containing 1
fragments assigned reactant/reagent role:
containing 20

C:\stnweb\Queries\2q.str





chain nodes :
11 13 14 16 17 20 21 22 24 25 35 36 38 39 40 42 43
ring nodes :
1 2 3 4 5 6 7 8 9 10 29 30 31 32 33 34
chain bonds :
16-17 20-21 20-25 20-24 21-22 31-35 38-39 38-40 42-43
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 29-30 29-34 30-31 31-32
32-33 33-34
exact/norm bonds :
16-17 20-21 20-25 20-24 21-22 38-39 38-40 42-43
exact bonds :
31-35
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 29-30 29-34 30-31 31-32
32-33 33-34
isolated ring systems :
containing 1 : 29 :

G1:CH3,Et

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS
12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 20:CLASS 21:CLASS
22:CLASS 24:CLASS 25:CLASS 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom
35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS
44:CLASS 45:CLASS

```
* * * * * * * * * *  Welcome to STN International  * * * * * * * * * *

NEWS   1          Web Page URLs for STN Seminar Schedule - N. America
NEWS   2          "Ask CAS" for self-help around the clock
NEWS   3  Jul 12  BEILSTEIN enhanced with new display and select options,
                  resulting in a closer connection to BABS
NEWS   4  AUG 02  IFIPAT/IFIUDB/IFICDB reloaded with new search and display
                  fields
NEWS   5  AUG 02  CAplus and CA patent records enhanced with European and Japan
                  Patent Office Classifications
NEWS   6  AUG 02  The Analysis Edition of STN Express with Discover!
                  (Version 7.01 for Windows) now available
NEWS   7  AUG 27  BIOCOMMERCE: Changes and enhancements to content coverage
NEWS   8  AUG 27  BIOTECHABS/BIOTECHDS: Two new display fields added for legal
                  status data from INPADOC
NEWS   9  SEP 01  INPADOC: New family current-awareness alert (SDI) available
NEWS  10  SEP 01  New pricing for the Save Answers for SciFinder Wizard within
                  STN Express with Discover!
NEWS  11  SEP 01  New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS  12  SEP 27  STANDARDS will no longer be available on STN
NEWS  13  SEP 27  SWETSCAN will no longer be available on STN

NEWS EXPRESS  JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
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NEWS INTER    General Internet Information
NEWS LOGIN    Welcome Banner and News Items
NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 01:37:40 ON 27 OCT 2004

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 01:37:49 ON 27 OCT 2004
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STRUCTURE FILE UPDATES:   25 OCT 2004  HIGHEST RN 769101-30-6
DICTIONARY FILE UPDATES:  25 OCT 2004  HIGHEST RN 769101-30-6
```

h eb c g cg b cg eb

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

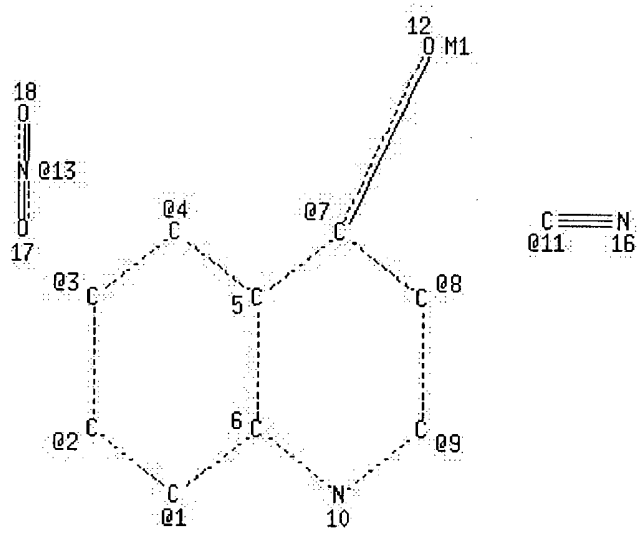
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Page 1-A

Page 2-A
VPA 11-7/8/9 S
VPA 13-2/3/4 S
VPA 15-1/2/3 S
NODE ATTRIBUTES:

HCOUNT	IS M1	AT	12
NSPEC	IS R	AT	1
NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
NSPEC	IS R	AT	6
NSPEC	IS R	AT	7
NSPEC	IS R	AT	8
NSPEC	IS R	AT	9
NSPEC	IS R	AT	10
NSPEC	IS C	AT	11

h eb c g cg b cg eb

```
NSPEC   IS C      AT  12
NSPEC   IS C      AT  13
NSPEC   IS C      AT  14
NSPEC   IS C      AT  15
NSPEC   IS C      AT  16
NSPEC   IS C      AT  17
NSPEC   IS C      AT  18
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT  11 12 13 14 15 16 17 18
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  18

STEREO ATTRIBUTES: NONE


=> s l1
SAMPLE SEARCH INITIATED 01:40:55 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     16 TO ITERATE

100.0% PROCESSED      16 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:           80 TO      560
PROJECTED ANSWERS:               1 TO       80

L2            1 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 01:40:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    189 TO ITERATE

100.0% PROCESSED     189 ITERATIONS                               5 ANSWERS
SEARCH TIME: 00.00.01

L3            5 SEA SSS FUL L1

=>
L4      STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4              STR

=> s l4
SAMPLE SEARCH INITIATED 01:43:05 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 268233 TO ITERATE

  0.4% PROCESSED    1000 ITERATIONS                              18 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
```

```
PROJECTED ITERATIONS:       EXCEEDS 1000000
PROJECTED ANSWERS:          EXCEEDS   92397

L5            18 SEA SSS SAM L4

=> e dimethyl formamide/cn
E1            1      DIMETHYL FLUOROPHOSPHATE/CN
E2            1      DIMETHYL FORMAL/CN
E3            0 --> DIMETHYL FORMAMIDE/CN
E4            1      DIMETHYL FORMAMIDOMALONATE/CN
E5            1      DIMETHYL FORMYLMALONATE/CN
E6            1      DIMETHYL FORMYLPHOSPHONATE/CN
E7            1      DIMETHYL FORMYLSUCCINATE/CN
E8            1      DIMETHYL FUMARATE/CN
E9            1      DIMETHYL FUMARATE HOMOPOLYMER/CN
E10           1      DIMETHYL FUMARATE POLYMER/CN
E11           1      DIMETHYL FUMARATE RADICAL ION(1-)/CN
E12           1      DIMETHYL FUMARATE-1,1'-(1,2-ETHANEDIYL)BIS(2,2,6,6-TETRAMETH
                     YL-4-PIPERIDINOL) COPOLYMER/CN

=> e dimethyl formamide/cn
E1            1      DIMETHYL FLUOROPHOSPHATE/CN
E2            1      DIMETHYL FORMAL/CN
E3            0 --> DIMETHYL FORMAMIDE/CN
E4            1      DIMETHYL FORMAMIDOMALONATE/CN
E5            1      DIMETHYL FORMYLMALONATE/CN
E6            1      DIMETHYL FORMYLPHOSPHONATE/CN
E7            1      DIMETHYL FORMYLSUCCINATE/CN
E8            1      DIMETHYL FUMARATE/CN
E9            1      DIMETHYL FUMARATE HOMOPOLYMER/CN
E10           1      DIMETHYL FUMARATE POLYMER/CN
E11           1      DIMETHYL FUMARATE RADICAL ION(1-)/CN
E12           1      DIMETHYL FUMARATE-1,1'-(1,2-ETHANEDIYL)BIS(2,2,6,6-TETRAMETH
                     YL-4-PIPERIDINOL) COPOLYMER/CN

=> e t-butyl cyanoacetate/cn
E1            1      T-BUTYL 6-TRIFLUOROMETHYL-3-(4-PYRIDINYLAMINO)INDOLE-2-CARBO
                     XYLATE/CN
E2            1      T-BUTYL ACRYLATE-DIETHYLENE GLYCOL MONOETHYL ETHER ACRYLATE-
                     BUTYL METHACRYLATE-METHYL METHACRYLATE-METHACRYLIC ACID-DI-T
                     -BUTYL MALEATE COPOLYMER/CN
E3            0 --> T-BUTYL CYANOACETATE/CN
E4            1      T-BUTYL ETHYL KETONE/CN
E5            1      T-BUTYL HYDROPEROXIDE/CN
E6            1      T-BUTYL IODIDE/CN
E7            1      T-BUTYL METHACRYLATE-1,3-BUTYLENE GLYCOL DIMETHACRYLATE COPO
                     LYMER/CN
E8            1      T-BUTYL METHACRYLATE-DIETHYLENE GLYCOL MONOETHYL ETHER ACRYL
                     ATE-2-HYDROXYETHYL METHACRYLATE COPOLYMER/CN
E9            1      T-BUTYL METHACRYLATE-DIETHYLENE GLYCOL MONOETHYL ETHER ACRYL
                     ATE-METHACRYLIC ACID COPOLYMER/CN
E10           1      T-BUTYL METHACRYLATE-DIPROPYLENE GLYCOL MONOMETHYL ETHER ACR
                     YLATE-METHACRYLIC ACID COPOLYMER/CN
E11           1      T-BUTYL METHACRYLATE-ETHYLENE GLYCOL MONOPHENYL ETHER METHAC
                     RYLATE-METHACRYLIC ACID COPOLYMER/CN
E12           1      T-BUTYL METHACRYLATE-ETHYLENE GLYCOL MONOPHENYL ETHER METHAC
                     RYLATE-METHACRYLIC ACID-METHYL METHACRYLATE COPOLYMER/CN

=> d his
```

h eb c g cg b cg eb

```
     (FILE 'HOME' ENTERED AT 01:37:40 ON 27 OCT 2004)

     FILE 'REGISTRY' ENTERED AT 01:37:49 ON 27 OCT 2004
L1             STRUCTURE UPLOADED
L2           1 S L1
L3           5 S L1 FULL
L4             STRUCTURE UPLOADED
L5          18 S L4
               E DIMETHYL FORMAMIDE/CN
               E DIMETHYL FORMAMIDE/CN
               E T-BUTYL CYANOACETATE/CN

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   159.62     159.83

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FILE COVERS 1907 - 27 Oct 2004  VOL 141 ISS 18
FILE LAST UPDATED: 25 Oct 2004  (20041025/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> d his

     (FILE 'HOME' ENTERED AT 01:37:40 ON 27 OCT 2004)

     FILE 'REGISTRY' ENTERED AT 01:37:49 ON 27 OCT 2004
L1             STRUCTURE UPLOADED
L2           1 S L1
L3           5 S L1 FULL
L4             STRUCTURE UPLOADED
L5          18 S L4
               E DIMETHYL FORMAMIDE/CN
               E DIMETHYL FORMAMIDE/CN
               E T-BUTYL CYANOACETATE/CN

     FILE 'HCAPLUS' ENTERED AT 01:44:10 ON 27 OCT 2004

=> s l3
L6          11 L3

=> s l3/prep
```

h eb c g cg b cg eb

```
            11 L3
       3214460 PREP/RL
L7          11 L3/PREP
                 (L3 (L) PREP/RL)

=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         2.36     162.19

FILE 'REGISTRY' ENTERED AT 01:44:36 ON 27 OCT 2004
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STRUCTURE FILE UPDATES:   25 OCT 2004  HIGHEST RN 769101-30-6
DICTIONARY FILE UPDATES:  25 OCT 2004  HIGHEST RN 769101-30-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> e dimethylformamide/cn
E1            1     DIMETHYLFLUOROSILYL(TRICHLOROGERMYL)METHANE/CN
E2            1     DIMETHYLFORMALDEHYDE/CN
E3            1 --> DIMETHYLFORMAMIDE/CN
E4            1     DIMETHYLFORMAMIDE 2,4-DINITROPHENYLHYDRAZONE/CN
E5            1     DIMETHYLFORMAMIDE AZINE/CN
E6            1     DIMETHYLFORMAMIDE COMPLEX WITH MOL. IODINE (1:1)/CN
E7            1     DIMETHYLFORMAMIDE COMPOUND WITH CARBON TETRACHLORIDE (1:1)/C
                    N
E8            1     DIMETHYLFORMAMIDE COMPOUND WITH SULFUR TRIOXIDE (1:1)/CN
E9            1     DIMETHYLFORMAMIDE COMPOUND WITH WATER (1:1)/CN
E10           1     DIMETHYLFORMAMIDE COMPOUND WITH WATER (2:1)/CN
E11           1     DIMETHYLFORMAMIDE CYCLIC ETHYLENE ACETAL/CN
E12           1     DIMETHYLFORMAMIDE DEMETHYLASE/CN

=> s e3
L8            1 DIMETHYLFORMAMIDE/CN

=> file hcaplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         4.85     167.04

FILE 'HCAPLUS' ENTERED AT 01:44:50 ON 27 OCT 2004
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```

h eb c g cg b cg eb

FILE COVERS 1907 - 27 Oct 2004 VOL 141 ISS 18
FILE LAST UPDATED: 25 Oct 2004 (20041025/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

```
=> s l8/rct
         27195 L8
       2670391 RCT/RL
L9        4103 L8/RCT
                (L8 (L) RCT/RL)

=> d his

     (FILE 'HOME' ENTERED AT 01:37:40 ON 27 OCT 2004)

     FILE 'REGISTRY' ENTERED AT 01:37:49 ON 27 OCT 2004
L1              STRUCTURE UPLOADED
L2            1 S L1
L3            5 S L1 FULL
L4              STRUCTURE UPLOADED
L5           18 S L4
                E DIMETHYL FORMAMIDE/CN
                E DIMETHYL FORMAMIDE/CN
                E T-BUTYL CYANOACETATE/CN

     FILE 'HCAPLUS' ENTERED AT 01:44:10 ON 27 OCT 2004
L6           11 S L3
L7           11 S L3/PREP

     FILE 'REGISTRY' ENTERED AT 01:44:36 ON 27 OCT 2004
                E DIMETHYLFORMAMIDE/CN
L8            1 S E3

     FILE 'HCAPLUS' ENTERED AT 01:44:50 ON 27 OCT 2004
L9         4103 S L8/RCT

=> s l9 and l7
L10           1 L9 AND L7

=> d l10, ibib abs hitstr, 1

L10  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2004 ACS on STN
```

Full Text | Cited References

```
ACCESSION NUMBER:         1999:794373  HCAPLUS
DOCUMENT NUMBER:          132:35620
```

h eb c g cg b cg eb

TITLE: Preparation of substituted 3-cyanoquinolines as inhibitors of growth factor receptor protein tyrosine kinases (PTK)

INVENTOR(S): Wissner, Allan; Johnson, Bernard D.; Reich, Marvin F.; Floyd, Middleton B., Jr.; Kitchen, Douglas B.; Tsou, Hwei-ru

PATENT ASSIGNEE(S): American Cyanamid Co., USA

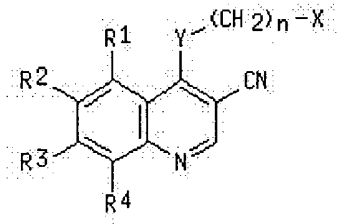
SOURCE: U.S., 80 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6002008	A	19991214	US 1998-49718	19980327
PRIORITY APPLN. INFO.:			US 1997-41963P P	19970403

OTHER SOURCE(S): MARPAT 132:35620

GI



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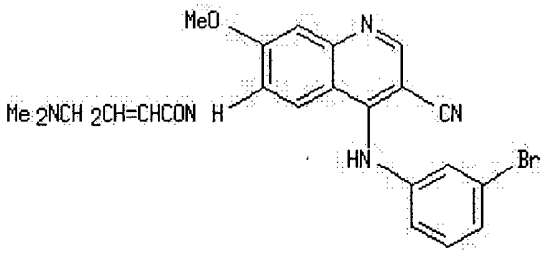


II

AB This invention provides compds. having the formula (I; wherein: X is cycloalkyl which may be optionally substituted; or is a pyridinyl, pyrimidinyl, or Ph ring; wherein the pyridinyl, pyrimidinyl, or Ph ring may be optionally substituted; n is 0-1; Y is NH, O, S, or NR; R is alkyl of 1-6 carbon atoms; R1, R2, R3, and R4 are each, independently, hydrogen, halogen, alkyl, alkenyl, alkynyl, alkenyloxy, alkynoyloxy, hydroxymethyl, halomethyl, alkanoyloxy, alkenoyloxy, alkynyloxy, alkanoyloxymethyl, alkenoyloxymethyl, alkynoyloxymethyl, alkoxymethyl, alkoxy, alkylthio, alkylsulphinyl, alkylsulfonyl, alkylsulfonamido, alkenylsulfonamido, alkynylsulfonamido, hydroxy, trifluoromethyl, cyano, nitro, carboxy, carboalkoxy, carboalkyl, phenoxy, Ph, thiophenoxy, benzyl, amino, hydroxyamino, alkoxyamino, alkylamino, dialkylamino, aminoalkyl, N-alkylaminoalkyl, N,N-dialkylaminoalkyl, phenylamino, benzylamino, etc.; R5 is alkyl which may be optionally substituted, or Ph which may be optionally substituted; R6 is hydrogen, alkyl, or alkenyl; R7 is chloro or bromo; R8 is hydrogen, alkyl, aminoalkyl, N-alkylaminoalkyl, N,N-dialkylaminoalkyl, N-cycloalkylaminoalkyl, N-cycloalkyl-N-

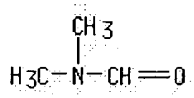
alkylaminoalkyl, N,N-dicycloalkylaminoalkyl, morpholino-N-alkyl, piperidino-N-alkyl, N-alkyl-piperidino-N-alkyl, azacycloalkyl-N-alkyl, hydroxyalkyl, alkoxyalkyl, carboxy, carboalkoxy, Ph, carboalkyl, chloro, fluoro, or bromo; Z is amino, hydroxy, alkoxy, alkylamino, dialkylamino). The compds. of the present invention inhibit the action of certain growth factor receptor protein tyrosine kinases (PTK) thereby inhibiting the abnormal growth of certain cell types. They are therefore useful for the treatment of certain diseases that are the result of deregulation of these PTKs, in particular as anti-cancer agents for the treatment of cancers expressing epidermal growth factor receptor (EGFR), mitogen activated protein kinase (MAPK), epithelial kinase (ECK), and kinase insert domain contg. receptor (KDR) in mammals and for the treatment of polycystic kidney disease in mammals. Thus, To a mixt. of 1.9 g (5.1 mmol) of 4-[(3-bromophenyl)amino]-7-methoxy-6-amino-3-quinolinecarbonitrile and 5.3 mL (31 mmol) of Hunig's base in 110 mL of dry THF at 0° C., with stirring, was added a THF soln. contg. 5.7 g (31 mmol) of 4-bromocrotonyl chloride dropwise. The mixt. was stirred for addnl. 0.5 h. After addn. 100 mL of satd. sodium chloride soln. was added to the reaction mixt., then it was extd. with Et acetate. The Et acetate soln. was dried over sodium sulfate and then was added to 40 mL of di-Me amine soln. (2.0 M in THF) at 0° dropwise and stirred an addnl. 0.5 h to give 4-Dimethylamino-but-2-enoic acid [4-(3-bromo-phenylamino)-3-cyano-7-methoxy-quinolin-6-yl]amide (II). II showed IC50 of 0.000008 μM against epidermal growth factor receptor kinase.

IT **68-12-2**, DMF, reactions

RL: **RCT (Reactant)**; RACT (Reactant or reagent)
(prepn. of substituted 3-cyanoquinolines as inhibitors of growth factor receptor protein tyrosine kinases (PTK) for treatment of cancers and polycystic kidney disease)

RN 68-12-2 HCAPLUS

CN Formamide, N,N-dimethyl- (8CI, 9CI) (CA INDEX NAME)



IT **27333-44-4P 214476-08-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); **PREP (Preparation)**; RACT (Reactant or reagent)
(prepn. of substituted 3-cyanoquinolines as inhibitors of growth factor receptor protein tyrosine kinases (PTK) for treatment of cancers and polycystic kidney disease)

RN 27333-44-4 HCAPLUS

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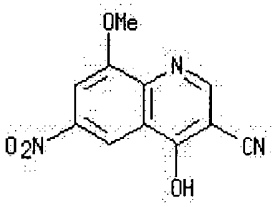

RN 214476-08-1 HCAPLUS

CN 3-Quinolinecarbonitrile, 7-ethoxy-4-hydroxy-6-nitro- (9CI) (CA INDEX NAME)

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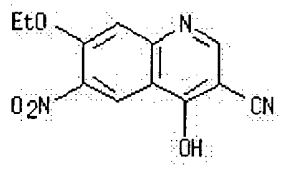

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'REGISTRY' ENTERED AT 01:37:49 ON 27 OCT 2004
L1 STRUCTURE UPLOADED
L2 1 S L1
L3 5 S L1 FULL
L4 STRUCTURE UPLOADED
L5 18 S L4
E DIMETHYL FORMAMIDE/CN
E DIMETHYL FORMAMIDE/CN
E T-BUTYL CYANOACETATE/CN

FILE 'HCAPLUS' ENTERED AT 01:44:10 ON 27 OCT 2004
L6 11 S L3
L7 11 S L3/PREP

FILE 'REGISTRY' ENTERED AT 01:44:36 ON 27 OCT 2004
E DIMETHYLFORMAMIDE/CN
L8 1 S E3

FILE 'HCAPLUS' ENTERED AT 01:44:50 ON 27 OCT 2004
L9 4103 S L8/RCT
L10 1 S L9 AND L7

=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.12	174.16
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.70	-0.70

FILE 'CAOLD' ENTERED AT 01:45:24 ON 27 OCT 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

h eb c g cg b cg eb

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   This file supports REGISTRY for direct browsing and searching of
   all substance data from the REGISTRY file.  Enter HELP FIRST for
   more information.

=> d his

     (FILE 'HOME' ENTERED AT 01:37:40 ON 27 OCT 2004)

     FILE 'REGISTRY' ENTERED AT 01:37:49 ON 27 OCT 2004
L1             STRUCTURE UPLOADED
L2           1 S L1
L3           5 S L1 FULL
L4             STRUCTURE UPLOADED
L5          18 S L4
               E DIMETHYL FORMAMIDE/CN
               E DIMETHYL FORMAMIDE/CN
               E T-BUTYL CYANOACETATE/CN

     FILE 'HCAPLUS' ENTERED AT 01:44:10 ON 27 OCT 2004
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L7          11 S L3/PREP

     FILE 'REGISTRY' ENTERED AT 01:44:36 ON 27 OCT 2004
               E DIMETHYLFORMAMIDE/CN
L8           1 S E3

     FILE 'HCAPLUS' ENTERED AT 01:44:50 ON 27 OCT 2004
L9        4103 S L8/RCT
L10          1 S L9 AND L7

     FILE 'CAOLD' ENTERED AT 01:45:24 ON 27 OCT 2004

=> s l3 and l8
             0 L3
            17 L8
L11          0 L3 AND L8

=> file casreact
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.42     174.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -0.70

FILE 'CASREACT' ENTERED AT 01:45:42 ON 27 OCT 2004
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26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1840 - 24 Oct 2004 VOL 141 ISS 17

************************************************************
*                                                          *
*     CASREACT now has more than  8 million reactions      *
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h eb c g cg b cg eb

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*                                                            *
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Some CASREACT records are derived from the ZIC/VINITI database (1974-1991)
provided by InfoChem, INPI data prior to 1986, and Biotransformations
database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance
identification.

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L12 HAS NO ANSWERS
L12                STR
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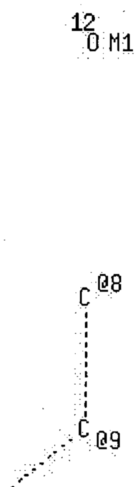

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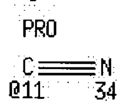

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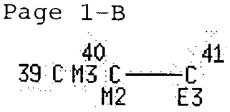

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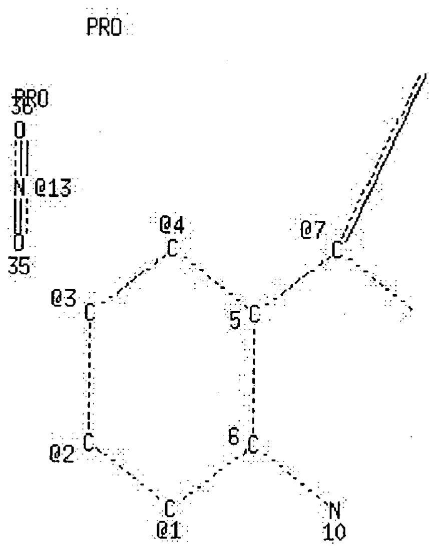
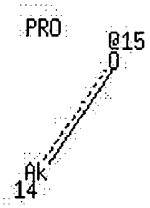
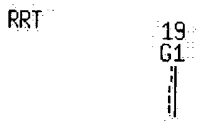


h eb c g cg b cg eb

Page 1-F

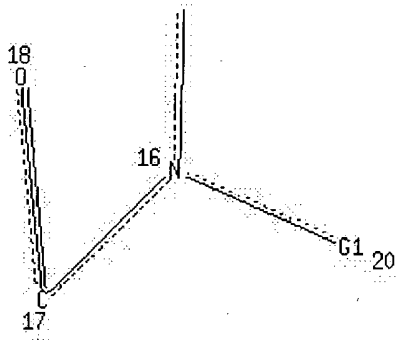


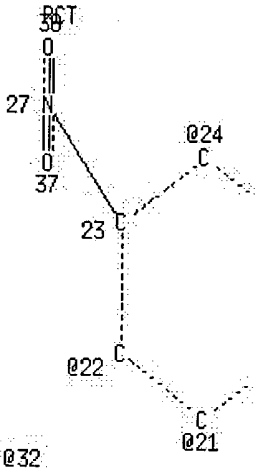


Page 2-E

RCT

Page 2-F





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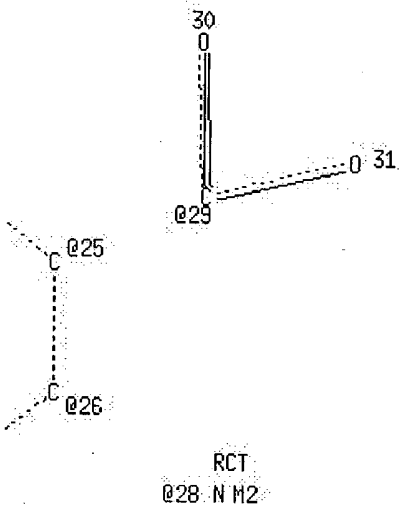

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VPA 15-1/2/3 S
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NUMBER OF NODES IS  41

STEREO ATTRIBUTES: NONE
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SCREENING COMPLETE -      0 REACTIONS TO VERIFY FROM      0 DOCUMENTS

100.0% DONE      0 VERIFIED       0 HIT RXNS                      0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS:          0 TO        0
PROJECTED ANSWERS:                0 TO        0

L13           0 SEA SSS SAM L12 (     0 REACTIONS)

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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
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SCREENING COMPLETE -      4 REACTIONS TO VERIFY FROM      1 DOCUMENTS

100.0% DONE      4 VERIFIED       0 HIT RXNS                      0 DOCS
SEARCH TIME: 00.00.01

L14           0 SEA SSS FUL L12 (     0 REACTIONS)

=>
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=> d l15
L15 HAS NO ANSWERS
L15              STR
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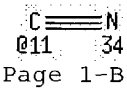

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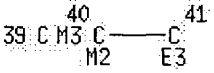

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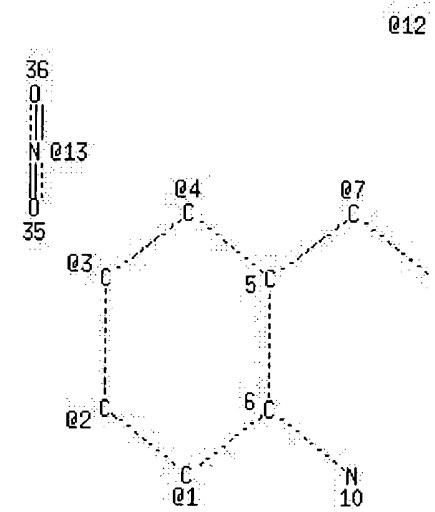

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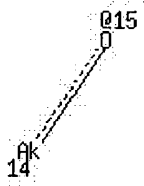

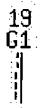

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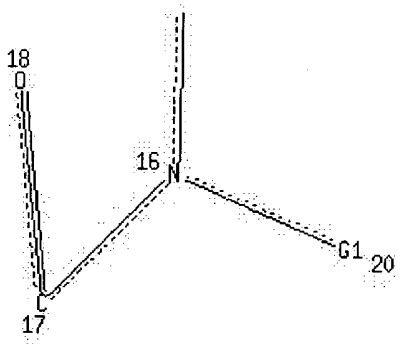

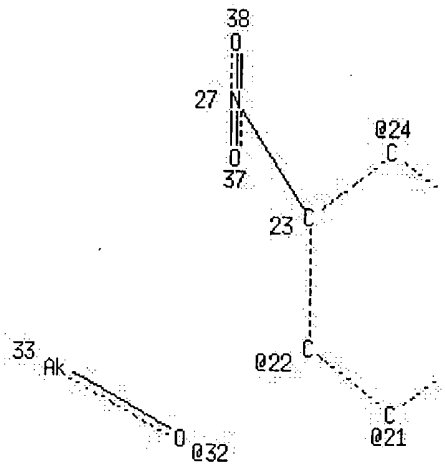

Page 3-E

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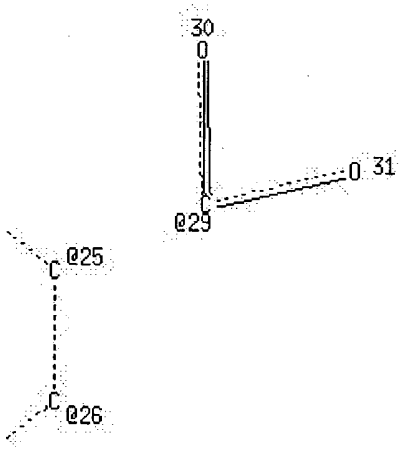

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h eb c g cg b cg eb

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DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT  11 12 13 14 15 16 17 18 27 28 29 30 31 32 33 34 35
          36 37 38 39 40 41
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  41

STEREO ATTRIBUTES: NONE


=> s l15
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SCREENING COMPLETE -      1 REACTIONS TO VERIFY FROM      1 DOCUMENTS

100.0% DONE      1 VERIFIED       0 HIT RXNS                    0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS:         1 TO       79
PROJECTED ANSWERS:               0 TO        0

L16           0 SEA SSS SAM L15 (     0 REACTIONS)

=> s l15 full
THE ESTIMATED SEARCH COST FOR FILE 'CASREACT' IS 102.30 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 01:52:46 FILE 'CASREACT'
SCREENING COMPLETE -     50 REACTIONS TO VERIFY FROM     12 DOCUMENTS

100.0% DONE     50 VERIFIED       0 HIT RXNS                    0 DOCS
SEARCH TIME: 00.00.01

L17           0 SEA SSS FUL L15 (     0 REACTIONS)

=>
```

h eb c g cg b cg eb